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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/938,387	08/23/2001	Charles P. Norman	ST00015C1	2456
7590	07/19/2006		EXAMINER	
THE ECLIPSE GROUP 10453 RAINTREE LANE NORTHRIDGE, CA 91326			PHU, PHUONG M	
			ART UNIT	PAPER NUMBER
			2611	

DATE MAILED: 07/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/938,387	NORMAN, CHARLES P.
	<b>Examiner</b>	<b>Art Unit</b>
	Phuong Phu	2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### **Status**

- 1) Responsive to communication(s) filed on 05 July 2006.
- 2a) This action is **FINAL**.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### **Disposition of Claims**

- 4) Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1 is/are rejected.
- 7) Claim(s) 2-4 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### **Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### **Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### **Attachment(s)**

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

## DETAILED ACTION

This Office Action is responsive to the Amendment filed on 7/5/06.

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Barnard (5,241,561), previously cited.

-Regarding to claim 1, see figure 3, and col. 5, line 47 to col. 6, line 61, Barnard disclose a system comprising:

a first mixer (24, 26) for removing a carrier component of an input signal (outputted from element (21)) (referred to the limitation “the GPS signal”) to form a carrier removed signal in such a way that the first mixer comprises device (26) as a low pass filter for passing only the lowest, difference frequency component of products of mixing (via device (24)) the input signal with a local oscillator signal (22), and suppressing or removing others of higher frequency (inherently including the carrier component of the input signal) (see col. 6, line 67 to col. 6, line 2), (and it is explained as follows. In Barnard, the input signal is data with bandwidth of 2 MHz and transmitted on carrier frequency 1575.42 MHz (see col. 1, line 34 to col. 2, line 3), (in another word, it can be said that the input signal is within  $1575.42 \text{ MHz} \pm 2 \text{ MHz}$ ), and further, the local oscillator signal can be the same or close to that of the input signal (see col. 5, lines 62-64); therefore for the case that the local oscillator signal is equal the carrier frequency of

1575.42 MHz, since a difference frequency component ((1575.42 MHz  $\pm$  2 MHz)- 1575.42 MHz) of the products of mixing is less than 2 MHz, namely, much less than the carrier frequency of 1575.42 MHz, and the low pass filter (26) for passing only the lowest, difference frequency component of the products of mixing, the carrier component 1575.42 MHz of the input signal is, therefore, inherently suppressed or removed by the low pass filter (26));

a second mixer (34) for receiving the carrier-removed signal and a separate received frequency reference signal outputted from (32) and outputting a resultant signal while further suppressing any remained leakage of the carrier frequency component (see col. 6, lines 14-18);

a comb filter (36), coupled to the second mixer, for filtering the resultant signal and obtaining a first output comprising filter lines; and (see col. 6, lines 18-24); and

a frequency shifter (40, 42, 44) for shifting the filter lines in the first output to produce an output signal outputted from element (44) (referred to the limitation "a compressed GPS signal") (see col. 6, lines 24-44).

***Allowable Subject Matter***

3. Claims 2-4 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

4. Applicant's arguments filed on 7/5/06 have been fully considered but they are not, in part, persuasive.

The rejection, under 35 USC 112, to claims 1 and 2, has been withdrawn since the claims were amended and overcome the rejection.

Applicant's arguments with respect to claim 1, as being anticipated by Barnard, is not persuasive. The claim, after being amended, is deemed still being anticipated by Barnard, with reasons set forth above in this Office Action.

***Conclusion***

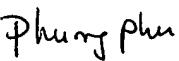
5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



**PHUONG PHU**  
**PRIMARY EXAMINER**

Phuong Phu  
07/11/06

Phuong Phu  
Primary Examiner  
Art Unit 2611